What is claimed is:

- 1. A III group nitride system compound semiconductor
- 2 light emitting element, comprising:
- 3 a quantum well structure that includes a well layer of
- 4 $Al_{x_1}Ga_{y_1}In_{1-x_1-y_1}N$, where 0<X1, 0\leq Y1 and X1+Y1<1 and a barrier
- 5 layer of $Al_{x_2}Ga_{y_2}In_{1-x_2-y_2}N$, where $0 < x_2$, $0 \le y_2$ and $x_2+y_2 \le 1$,
- 6 wherein the Al composition (X2) of said barrier layer is
- 7 equal to or smaller than that (X1) of said well layer.
- 1 2. The III group nitride system compound semiconductor
- 2 light emitting element according to claim 1, wherein:
- said barrier layer is of $Al_{x_2}Ga_{y_2}In_{1-x_2-y_2}N$, where $0 \le x_2$, $0 \le y_2$
- 4 and $x2+y2 \leq 1$.
- The III group nitride system compound semiconductor
- 2 light emitting element according to claim 1, wherein:
- 3 the Al compositions (X1, X2) of said well layer and said
- 4 barrier layer are set to satisfy the relationship of $X2 \le X1 \le 1.5$
- $5 \times x2$.
- 1 4. The III group nitride system compound semiconductor
- 2 light emitting element according to claim 2, wherein:
- 3 the Al compositions (X1, X2) of said well layer and said
- 4 barrier layer are set to satisfy the relationship of $X2 \le X1 \le 1.5$
- $5 \times x2$.
- 5. The III group nitride system compound semiconductor
- 2 light emitting element according to claim 1, wherein:
- 3 said well layer has substantially the same lattice

- 4 constant as GaN layer that is a base layer of said quantum well
- 5 structure.
- 6. The III group nitride system compound semiconductor
- 2 light emitting element according to claim 2, wherein:
- 3 said well layer has substantially the same lattice
- 4 constant as GaN layer that is a base layer of said quantum well
- 5 structure.
- 7. The III group nitride system compound semiconductor
- 2 light emitting element according to claim 3, wherein:
- 3 said well layer has substantially the same lattice
- 4 constant as GaN layer that is a base layer of said quantum well
- 5 structure.
- 8. A III group nitride system compound semiconductor
- 2 light emitting element, comprising:
- 3 a quantum well structure that includes a well layer of
- 4 Al_{x1}Ga_{y1}In_{1-x1-y1}N, where 0 < x1, $0 \le y1$ and x1+y1 < 1 and a barrier
- 5 layer of $Al_{x2}Ga_{y2}In_{1-x2-y2}N$, where 0 < x2, $0 \le y2$ and x2+y2 < 1,
- 6 wherein the Al composition (X2) of said barrier layer is
- 7 equal to or smaller than that (X1) of said well layer, and the
- 8 In composition of said well layer is greater than that of said
- 9 barrier layer.